

Trend Study 19B-13-02

Study site name: Dennis Spring.

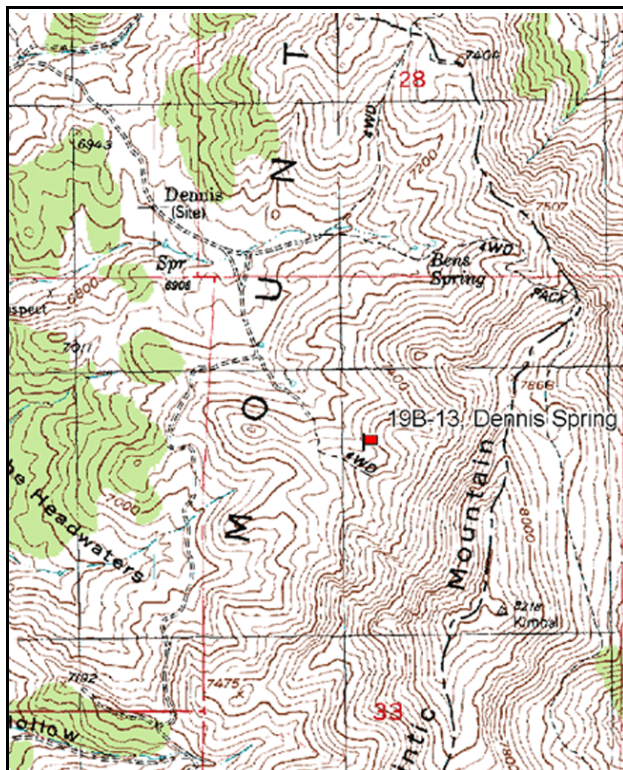
Vegetation type: Big Sagebrush-Grass.

Compass bearing: frequency baseline 117 degrees magnetic.

Frequency belt placement: Line 1 (11 & 95ft), line 2 (34ft), line 3 (59ft), line 4 (71ft). Rebar: belt 2 on 1ft and belt 5 on 1ft.

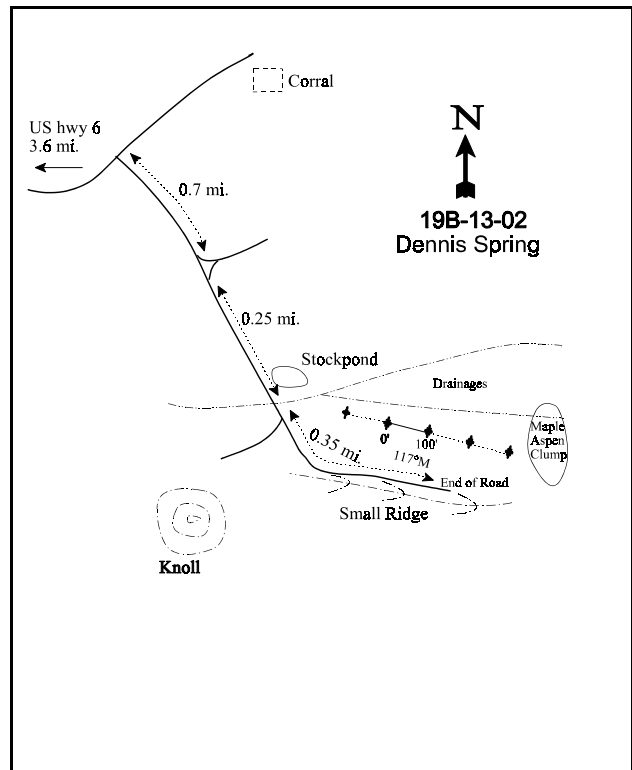
LOCATION DESCRIPTION

From mile marker 130 on Highway U.S. 6, proceed east for 1.6 miles to a fork and go left. Proceed 2.0 miles on the "Dennis Road" up Copperpolis Creek to a fork. Turn right (to the southeast) and travel uphill for 0.70 miles to another fork. Turn right again for 0.25 miles to where there is a fork turning off sharply to the right and a stockpond on the left. Continue straight ahead (on the left fork) for an additional 0.35 miles to where the road ends on top of a small ridge. At this point, there will be an aspen-maple stand to your immediate left-front at the head of a small drainage. Just behind you, there should be a knoll. From the front-rightmost maple tree of the clump to your front, walk 13 paces on an azimuth of 8 degrees to the number 300-foot stake. The 0-foot marker of the baseline is marked by a red browse tag, number 3945, is located in the approximate middle of a triangle formed by three boulders. All plot markers consists of steel fenceposts 15" to 20" in height.



Map Name: Tintic Mountain

Township 11S, Range 2W, Section 33



Diagrammatic Sketch

GPS: NAD 27, UTM 12S 4408688 N 408082 E

DISCUSSION

Dennis Spring - Trend Study No. 19B-13

The Dennis Spring trend study samples a summer range site near the bottom of a moderate sloping (20%), north facing swale. Elevation is approximately 7,200 feet. Dennis Spring is located one-quarter mile further up the swale from the study site. Prior to 2001, the plant community was dominated by a moderately tall mountain big sagebrush population with an understory of lower growing shrubs, forbs, and grasses. Estimated mountain big sagebrush cover was high in 1997 at 32%. A wildfire burned through the site in 2001, greatly reducing the browse component. Prior to the burn, the area received moderate use by deer and sheep, and light use by cattle and elk. A pellet group transect read on site in 2002 estimated 7 deer days use/acre (18 ddu/ha) and 13 sheep days use/acre (33 sdu/ha). Mormon crickets were abundant on the site in 2002 and appeared to have utilized many of the herbaceous plants. Except for a few isolated aspen clones and patches of bigtooth maple, the area is devoid of tree cover.

The effective rooting depth of the soil was almost 12 inches, with an average soil temperature of 52°F measured almost 14 inches in depth in 1997. Soil textural and chemical analysis indicates a sandy clay loam with a moderately acidic pH (5.9). Soil erosion was minimal both before and after the burn. The rate of sedimentation from the upper slope likely exceeds the rate of erosion. Bare ground was moderate before the burn at 17% in 1997, increasing significantly in 2002 to 50%. Although bare soil is high, herbaceous vegetative cover increased following the burn. The erosion condition class was determined as stable in 2002.

Mountain big sagebrush provided nearly 80% of the browse cover in 1997, while the density was estimated at just under 5,000 plants/acre. Use was light, decadence low, and vigor generally good. Following the burn, mountain big sagebrush density was estimated at 7,120 plants/acre in 2002, all of which were young plants. In 2002, vigor was normal throughout the entire population and the plants displayed light use. With the abundance of young, especially during drought, the sagebrush population should rebound quickly. Snowberry, Oregon grape, and low rabbitbrush were also abundant in 2002 following the burn. These species have nearly the same densities after the fire compared to the pre-burn community. With an abundance of open spaces on this site due to the burn, all of these species will likely increase dramatically. Total browse cover was estimated at 41% in 1997, decreasing to 6% in 2002.

The herbaceous understory will benefit the most from the burn. Perennial grasses declined by nearly half in sum of nested frequency in 2002, but with drought conditions following a wildfire, the decline could have been worse. The grass component is diverse. The perennial species will do well with normal precipitation patterns in the future. The most abundant grasses before and after the burn are bluebunch wheatgrass and subalpine needlegrass. Other less abundant perennials include slender wheatgrass, smooth brome, mutton bluegrass, Sandberg bluegrass, bottlebrush squirreltail, and Letterman needlegrass. Cheatgrass brome significantly increased in nested frequency in 2002, but this species does not yet dominate the site. Perennial forbs increased in average cover and sum of nested frequency following the burn. This is a very positive change, especially in light of harsh drought conditions in 2002. Mormon crickets were abundant in 2002 and had utilized many of the forbs on the site. It would be interesting to see what the site would have looked like without heavy cricket use. Most of the other sites in this unit showed a decline in sum of nested frequency values for perennial forbs in 2002 due in part to drought but more likely due to cricket use. The most abundant perennial forbs on the site include longleaf phlox, prickly lettuce, ballhead waterleaf, and silvery lupine. Annual forbs were also moderately abundant in 2002, primarily lambsquarters goosefoot and Douglas knotweed. It will be critical for the desirable native perennials, both grasses and forbs, to get well established on this site in the next few years so cheatgrass does not become dominate. The health of the understory, and ultimately the site as a whole, will depend upon how well perennial grasses and forbs become established and persist. Management of this site, primarily the grazing regime, will play an important role in the recovery of the vegetation community in the future.

1983 APPARENT TREND ASSESSMENT

Soil trend appears stable. There is some erosion apparent, but it is not excessive at this time. The area has a demonstrated potential to produce abundant forage. The browse composition is becoming progressively less favorable with the most obvious indicator being a rapidly increasing population of stickyleaf low rabbitbrush. Grass production is depressed and undesirable forbs, or those of only moderate value, far outnumber desirable species. The herbaceous understory trend appears stable but in poor condition.

1989 TREND ASSESSMENT

The heavily disturbed soil lacks stable cover and has high erosion potential. Percent bare ground has changed little since 1983 and erosion appears to be occurring at the same rate as before. The soil trend is stable. The density of mountain big sagebrush has increased from 1,199 plants/acre to 8,532 plants/acre. The increase is due to a highly abundant young age class in 1989. This population shows good vigor and light utilization. The browse trend is up. A negative aspect to the increase in sagebrush is it may have a detrimental effect on the production and diversity of the understory. This will need to be watched closely in future readings. For now, the herbaceous understory trend is stable. Sum of nested frequency for perennial grasses and forbs slightly increased since 1983.

TREND ASSESSMENT

soil - stable (3)

browse - up (5)

herbaceous understory - stable (3)

1997 TREND ASSESSMENT

The soil trend continues to be stable. Percent bare ground cover has declined, but there is still high potential for erosion in the shrub interspaces. The browse condition is stable, but this is a summer range not a winter range, and as long as sagebrush cover continues to be this high, a productive herbaceous understory will never develop. A decrease in canopy cover is needed for a healthier herbaceous understory. The herbaceous understory trend is stable but depleted. Production is below potential and there are many undesirable forbs present.

TREND ASSESSMENT

soil - stable (3)

browse - stable (3)

herbaceous understory - stable, but poorly developed and depleted (3)

2002 TREND ASSESSMENT

Trend for soil is down due to fire and drought. Bare soil increased to 50%, and the site has a very high erosion potential at the present time. It will take the vegetative community several years to develop, and until it does, soils are susceptible to erosion. The erosion condition class was rated as stable in 2002, but only because of very low precipitation. Trend for browse is slightly up. The mountain big sagebrush population has been converted from an overly mature, dense canopied community to one with an open canopy composed totally of young, vigorous plants. Density of young sagebrush plants is high at over 7,000 plants/acre, so the sagebrush component should develop rather quickly. Because this site lies above 7,000 feet in elevation, the most important vegetation component on this site is the understory, and this decrease in sagebrush canopy should greatly benefit grasses and forbs in the future if livestock use is minimal. Trend for the herbaceous understory is slightly down due a decline in sum of nested frequency for perennial grasses. However, as was stated before, the decline in sagebrush canopy should be a positive change for the understory. The increase in frequency of perennial forbs in 2002, with drought is very positive and would undoubtedly have been greater without the heavy use by Mormon crickets.

TREND ASSESSMENT

soil - down (1)

browse - slightly up (4)

herbaceous understory - slightly down (2)

HERBACEOUS TRENDS --

Herd unit 19B, Study no: 13

| Type | Species | Nested Frequency | | | | Quadrat Frequency | | | | Average Cover % | |
|-----------------------------|-------------------------|------------------|-----------------|------------------|------------------|-------------------|-----|-----|-----|-----------------|------|
| | | '83 | '89 | '97 | '02 | '83 | '89 | '97 | '02 | '97 | '02 |
| G | Agropyron cristatum | - | - | 4 | 1 | - | - | 1 | 1 | .00 | .15 |
| G | Agropyron spicatum | _b 72 | _b 80 | _a 47 | _a 31 | 33 | 35 | 16 | 15 | .32 | .54 |
| G | Agropyron trachycaulum | - | - | - | 8 | - | - | - | 3 | - | .21 |
| G | Bromus inermis | - | - | 3 | 2 | - | - | 1 | 1 | .00 | .15 |
| G | Bromus japonicus (a) | - | - | - | - | - | - | - | - | .00 | - |
| G | Bromus tectorum (a) | - | - | _a 26 | _b 129 | - | - | 10 | 48 | .41 | .71 |
| G | Poa fendleriana | - | 3 | 9 | 8 | - | 1 | 3 | 6 | .21 | .27 |
| G | Poa secunda | _b 45 | _b 32 | _a 6 | _a 1 | 19 | 13 | 3 | 1 | .04 | .00 |
| G | Sitanion hystrix | _a 12 | _a 23 | _b 43 | _a 3 | 7 | 10 | 19 | 2 | .59 | .20 |
| G | Stipa columbiana | _a - | _b 19 | _c 105 | _b 64 | - | 7 | 41 | 27 | 1.50 | 2.38 |
| G | Stipa lettermani | - | - | - | 2 | - | - | - | 1 | - | .01 |
| Total for Annual Grasses | | 0 | 0 | 26 | 129 | 0 | 0 | 10 | 48 | 0.42 | 0.70 |
| Total for Perennial Grasses | | 129 | 157 | 217 | 120 | 59 | 66 | 84 | 57 | 2.69 | 3.94 |
| Total for Grasses | | 129 | 157 | 243 | 249 | 59 | 66 | 94 | 105 | 3.11 | 4.65 |
| F | Agoseris glauca | 5 | - | 2 | 3 | 2 | - | 1 | 3 | .00 | .04 |
| F | Arabis spp. | _{ab} 7 | _b 9 | _a - | _a - | 4 | 6 | - | - | - | - |
| F | Arenaria fendleri | 2 | 1 | - | - | 1 | 1 | - | - | - | - |
| F | Astragalus convallarius | _b 18 | _{ab} 7 | _a 3 | _{ab} 12 | 10 | 6 | 2 | 8 | .01 | .31 |
| F | Aster spp. | _a 2 | _b 33 | _a - | _a 1 | 2 | 13 | - | 1 | - | .00 |
| F | Astragalus spp. | - | - | 3 | - | - | - | 1 | - | .00 | - |

| Type | Species | Nested Frequency | | | | Quadrat Frequency | | | | Average Cover % | |
|---------------------------|-----------------------------|------------------|------------------|------------------|------------------|-------------------|-----|-----|-----|-----------------|-------|
| | | '83 | '89 | '97 | '02 | '83 | '89 | '97 | '02 | '97 | '02 |
| F | Calochortus nuttallii | 1 | - | 1 | 1 | 1 | - | 1 | 1 | .00 | .00 |
| F | Chenopodium album (a) | - | - | _a 83 | _b 142 | - | - | 31 | 53 | .40 | 1.41 |
| F | Cirsium spp. | 3 | 3 | 2 | 2 | 3 | 2 | 1 | 1 | .00 | .03 |
| F | Collomia linearis (a) | - | - | 5 | - | - | - | 2 | - | .01 | - |
| F | Comandra pallida | - | 2 | 2 | - | - | 1 | 1 | - | .00 | - |
| F | Collinsia parviflora (a) | - | - | _b 190 | _a 19 | - | - | 67 | 7 | 1.08 | .06 |
| F | Crepis acuminata | _b 23 | _c 142 | _b 33 | _a - | 13 | 64 | 21 | - | .25 | .00 |
| F | Cymopterus spp. | - | - | 2 | - | - | - | 1 | - | .00 | - |
| F | Cynoglossum officinale | _b 34 | _b 32 | _b 39 | _a 10 | 20 | 16 | 23 | 5 | .76 | .19 |
| F | Epilobium brachycarpum (a) | - | - | - | 3 | - | - | - | 1 | - | .00 |
| F | Erigeron spp. | - | - | 3 | 3 | - | - | 1 | 1 | .03 | .00 |
| F | Eriogonum racemosum | _b 14 | _{ab} 10 | _a - | _a 2 | 8 | 4 | - | 1 | - | .00 |
| F | Gayophytum ramosissimum (a) | - | - | _a - | _b 28 | - | - | - | 10 | - | .25 |
| F | Geranium spp. | 3 | 3 | - | - | 2 | 1 | - | - | - | - |
| F | Hackelia patens | 7 | - | - | - | 4 | - | - | - | - | - |
| F | Hydrophyllum capitatum | _a - | _a - | _a - | _b 62 | - | - | - | 30 | - | 3.67 |
| F | Lathyrus brachycalyx | 18 | 15 | 18 | 17 | 9 | 5 | 10 | 7 | .25 | .46 |
| F | Lactuca serriola | _a - | _a - | _a 4 | _b 122 | - | - | 2 | 49 | .01 | 1.11 |
| F | Lupinus argenteus | _c 208 | _b 147 | _b 140 | _a 47 | 84 | 71 | 63 | 21 | 7.32 | 1.29 |
| F | Machaeranthera canescens | - | 2 | 2 | - | - | 1 | 1 | - | .00 | - |
| F | Microsteris gracilis (a) | - | - | 32 | 14 | - | - | 13 | 5 | .09 | .22 |
| F | Penstemon spp. | - | - | - | 3 | - | - | - | 2 | - | .01 |
| F | Phlox longifolia | _a 79 | _{ab} 96 | _a 76 | _c 133 | 40 | 46 | 31 | 53 | .22 | 2.54 |
| F | Polygonum douglasii (a) | - | - | _a 20 | _b 83 | - | - | 12 | 29 | .06 | .81 |
| F | Senecio integerrimus | _a - | _a - | _a - | _b 29 | - | - | - | 16 | - | .32 |
| F | Senecio multilobatus | _a - | _a - | _b 44 | _a - | - | - | 26 | - | .45 | - |
| F | Solidago spp. | _b 56 | _a - | _a - | _a - | 26 | - | - | - | - | - |
| F | Streptanthus cordatus | - | - | 5 | - | - | - | 2 | - | .03 | - |
| F | Taraxacum officinale | 3 | 6 | 15 | 2 | 1 | 3 | 6 | 1 | .05 | .03 |
| F | Trifolium spp. | _a 14 | _{ab} 23 | _b 37 | _{ab} 22 | 6 | 11 | 16 | 11 | .10 | .22 |
| F | Viguiera multiflora | - | - | 1 | - | - | - | 1 | - | .00 | - |
| F | Viola spp. | - | 1 | - | - | - | 1 | - | - | - | - |
| Total for Annual Forbs | | 0 | 0 | 330 | 289 | 0 | 0 | 125 | 105 | 1.65 | 2.76 |
| Total for Perennial Forbs | | 497 | 532 | 432 | 471 | 236 | 252 | 211 | 211 | 9.56 | 10.28 |
| Total for Forbs | | 497 | 532 | 762 | 760 | 236 | 252 | 336 | 316 | 11.21 | 13.05 |

Values with different subscript letters are significantly different at alpha = 0.10

BROWSE TRENDS --

Herd unit 19B, Study no: 13

| Type | Species | Strip Frequency | | Average Cover % | |
|------------------|---|-----------------|-----|-----------------|------|
| | | '97 | '02 | '97 | '02 |
| B | Acer grandidentatum | 1 | 0 | - | - |
| B | Amelanchier alnifolia | 2 | 0 | - | - |
| B | Artemisia tridentata vaseyana | 91 | 70 | 32.23 | 1.43 |
| B | Chrysothamnus nauseosus albicaulis | 7 | 1 | .69 | - |
| B | Chrysothamnus viscidiflorus viscidiflorus | 80 | 83 | 2.67 | 2.71 |
| B | Juniperus osteosperma | 2 | 0 | 1.12 | - |
| B | Mahonia repens | 29 | 28 | 1.33 | .86 |
| B | Pachistima myrsinites | 0 | 0 | - | .03 |
| B | Purshia tridentata | 0 | 0 | .03 | - |
| B | Rosa woodsii | 5 | 8 | .06 | .09 |
| B | Symphoricarpos oreophilus | 55 | 29 | 2.23 | .43 |
| B | Tetradymia canescens | 6 | 11 | .21 | .53 |
| B | Unknown browse | 1 | 0 | - | - |
| Total for Browse | | 279 | 230 | 40.60 | 6.10 |

CANOPY COVER -- LINE INTERCEPT

Herd unit 19B, Study no: 13

| Species | Percent Cover | |
|---|---------------|------|
| | '97 | '02 |
| Artemisia tridentata vaseyana | - | 1.42 |
| Chrysothamnus viscidiflorus viscidiflorus | - | 2.50 |
| Mahonia repens | - | .50 |
| Rosa woodsii | - | .03 |
| Symphoricarpos oreophilus | - | 1.17 |
| Tetradymia canescens | - | .17 |

BASIC COVER --

Herd unit 19B, Study no: 13

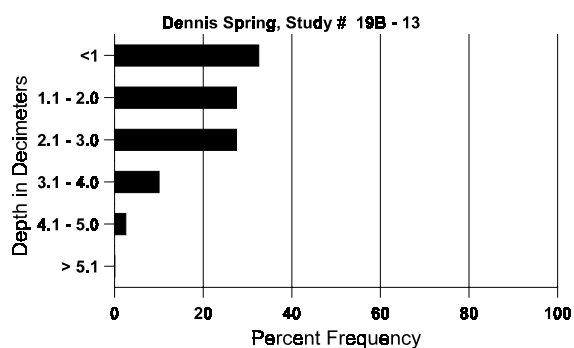
| Cover Type | Nested Frequency | | Average Cover % | | | |
|-------------|------------------|-----|-----------------|-------|-------|-------|
| | '97 | '02 | '83 | '89 | '97 | '02 |
| Vegetation | 327 | 337 | 1.00 | 10.75 | 47.86 | 28.06 |
| Rock | 114 | 188 | 6.00 | 7.25 | 3.45 | 6.38 |
| Pavement | 104 | 274 | .50 | 0 | 1.26 | 3.86 |
| Litter | 386 | 348 | 68.50 | 57.50 | 54.12 | 22.89 |
| Cryptogams | 9 | 3 | 0 | 0 | .04 | .85 |
| Bare Ground | 204 | 352 | 24.00 | 24.50 | 17.09 | 50.06 |

SOIL ANALYSIS DATA --

Herd Unit 19B, Study no: 13, Dennis Spring

| Effective rooting depth (in) | Temp °F (depth) | pH | %sand | %silt | %clay | %OM | PPM P | PPM K | dS/m |
|------------------------------|-----------------|-----|-------|-------|-------|-----|-------|-------|------|
| 11.5 | 52.3 (13.7) | 5.9 | 48.4 | 27.1 | 24.6 | 5.2 | 52.0 | 553.6 | 0.5 |

Stoniness Index



PELLET GROUP FREQUENCY --

Herd unit 19B, Study no: 13

| Type | Quadrat Frequency | | Pellet Transect | |
|--------|-------------------|-----|------------------------|------------------------|
| | '97 | '02 | Pellet Groups per Acre | Days Use per Acre (ha) |
| | | | '02 | '02 |
| Sheep | 8 | 6 | 174 | 13 (33) |
| Rabbit | 3 | 1 | - | - |
| Elk | 4 | - | - | - |
| Deer | 14 | 4 | 96 | 7 (18) |
| Cattle | 1 | - | - | - |

BROWSE CHARACTERISTICS --

Herd unit 19B, Study no: 13

| | | | | | | | | | | | | | | | | | |
|--|-----|----------------------------|---|---|---|------------------|---|---|---|-------------------|-------------|-----|-----|----------------|--------------------|--------------------------------|-------|
| Forest Unit 192, Study No. 15 | | | | | | | | | | | | | | | | | |
| A Y G R E | Y | Form Class (No. of Plants) | | | | | | | | | Vigor Class | | | | Plants Per Acre | Average (inches) Ht. Cr. | Total |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | | |
| Acer grandidentatum | | | | | | | | | | | | | | | | | |
| Y | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 |
| | 89 | 3 | - | - | - | - | - | - | - | - | 3 | - | - | - | 200 | | 3 |
| | 97 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 20 | | 1 |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 |
| % Plants Showing | | <u>Moderate Use</u> | | | | <u>Heavy Use</u> | | | | <u>Poor Vigor</u> | | | | <u>%Change</u> | | | |
| | '83 | 00% | | | | 00% | | | | 00% | | | | | | | |
| | '89 | 00% | | | | 00% | | | | 00% | | | | -90% | | | |
| | '97 | 00% | | | | 00% | | | | 00% | | | | | | | |
| | '02 | 00% | | | | 00% | | | | 00% | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '83 | 0 | Dec: | - | | |
| | | | | | | | | | | | | '89 | 200 | | - | | |
| | | | | | | | | | | | | '97 | 20 | | - | | |
| | | | | | | | | | | | | '02 | 0 | | - | | |

| A G E | Y R | Form Class (No. of Plants) | | | | | | | | | Vigor Class | | | | Plants Per Acre | Average (inches) Ht. Cr. | | Total |
|--|--------|----------------------------|---|---|------------------|---|---|-------------------|---|---|----------------|-----|------|------|--------------------|--------------------------------|-----|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | | | |
| Amelanchier alnifolia | | | | | | | | | | | | | | | | | | |
| Y | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 97 | 1 | - | - | 1 | - | - | - | - | - | 2 | - | - | - | 40 | | 2 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| D | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | 66 | | 1 | |
| | 97 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '83 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '89 | | 00% | | | 100% | | | 00% | | | -39% | | | | | | | |
| '97 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '02 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '83 | 0 | Dec: | 0% | | | |
| | | | | | | | | | | | | '89 | 66 | | 100% | | | |
| | | | | | | | | | | | | '97 | 40 | | 0% | | | |
| | | | | | | | | | | | | '02 | 0 | | 0% | | | |
| Artemisia tridentata vaseyana | | | | | | | | | | | | | | | | | | |
| S | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | 23 | - | - | - | - | - | - | - | - | 23 | - | - | - | 1533 | | 23 | |
| | 97 | 1 | - | - | 1 | - | - | - | - | - | 2 | - | - | - | 40 | | 2 | |
| | 02 | 51 | - | - | - | - | - | - | - | - | 51 | - | - | - | 1020 | | 51 | |
| Y | 83 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 66 | | 1 | |
| | 89 | 77 | - | - | 1 | - | - | - | - | - | 75 | 3 | - | - | 5200 | | 78 | |
| | 97 | 2 | 1 | - | - | - | - | - | - | - | 3 | - | - | - | 60 | | 3 | |
| | 02 | 356 | - | - | - | - | - | - | - | - | 356 | - | - | - | 7120 | | 356 | |
| M | 83 | 11 | 3 | - | - | - | - | - | - | - | 14 | - | - | - | 933 | 32 29 | 14 | |
| | 89 | 49 | - | - | - | - | - | - | - | - | 41 | 8 | - | - | 3266 | 17 20 | 49 | |
| | 97 | 210 | 1 | - | 5 | - | - | - | - | - | 207 | - | 9 | - | 4320 | 34 36 | 216 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 8 11 | 0 | |
| D | 83 | 1 | 2 | - | - | - | - | - | - | - | 3 | - | - | - | 200 | | 3 | |
| | 89 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 66 | | 1 | |
| | 97 | 27 | - | - | - | - | - | - | - | - | 17 | - | - | 10 | 540 | | 27 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| X | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 97 | - | - | - | - | - | - | - | - | - | - | - | - | - | 380 | | 19 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 100 | | 5 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '83 | | 28% | | | 00% | | | 00% | | | +86% | | | | | | | |
| '89 | | 00% | | | 00% | | | 00% | | | -42% | | | | | | | |
| '97 | | .81% | | | 00% | | | 08% | | | +31% | | | | | | | |
| '02 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '83 | 1199 | Dec: | 17% | | | |
| | | | | | | | | | | | | '89 | 8532 | | 1% | | | |
| | | | | | | | | | | | | '97 | 4920 | | 11% | | | |
| | | | | | | | | | | | | '02 | 7120 | | 0% | | | |

| A G E | Y R | Form Class (No. of Plants) | | | | | | | | | Vigor Class | | | | Plants Per Acre | Average (inches) Ht. Cr. | | Total |
|--|--------|----------------------------|---|---|------------------|---|---|-------------------|---|---|----------------|-----|-----|------|--------------------|--------------------------------|---|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | | | |
| Chrysothamnus nauseosus albicaulis | | | | | | | | | | | | | | | | | | |
| Y | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 97 | 1 | - | - | - | - | - | - | - | - | - | 1 | - | - | 20 | | 1 | |
| | 02 | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | 20 | | 1 | |
| M | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | 0 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | 0 | |
| | 97 | 2 | 2 | - | - | 1 | - | - | - | - | - | 5 | - | - | 100 | 44 | 5 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | 0 | |
| D | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 97 | - | 4 | - | - | - | - | - | - | - | - | 1 | - | 3 | 80 | | 4 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '83 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '89 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '97 | | 70% | | | 00% | | | 30% | | | -90% | | | | | | | |
| '02 | | 00% | | | 100% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '83 | 0 | Dec: | 0% | | | |
| | | | | | | | | | | | | '89 | 0 | | 0% | | | |
| | | | | | | | | | | | | '97 | 200 | | 40% | | | |
| | | | | | | | | | | | | '02 | 20 | | 0% | | | |

| A G E | Y R | Form Class (No. of Plants) | | | | | | | | | Vigor Class | | | | Plants Per Acre | Average (inches) Ht. Cr. | | Total |
|--|--------|----------------------------|----|----|------------------|---|---|-------------------|---|---|----------------|-----|-------|------|--------------------|--------------------------------|-----|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | | | |
| Chrysothamnus viscidiflorus viscidiflorus | | | | | | | | | | | | | | | | | | |
| S | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 133 | | 2 | |
| | 97 | 4 | - | - | 1 | - | - | - | - | - | - | - | - | - | 100 | | 5 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| Y | 83 | 27 | - | - | - | - | - | - | - | - | 27 | - | - | - | 1800 | | 27 | |
| | 89 | 16 | 2 | - | 6 | - | - | - | - | - | 24 | - | - | - | 1600 | | 24 | |
| | 97 | 39 | - | - | 2 | - | - | - | - | - | 41 | - | - | - | 820 | | 41 | |
| | 02 | 48 | - | - | - | - | - | - | - | - | 48 | - | - | - | 960 | | 48 | |
| M | 83 | 202 | - | - | - | - | - | - | - | - | 202 | - | - | - | 13466 | 15 13 | 202 | |
| | 89 | 1 | 15 | 10 | 9 | 3 | - | - | - | - | 34 | 4 | - | - | 2533 | 12 8 | 38 | |
| | 97 | 142 | 32 | 2 | 51 | - | 2 | 6 | - | - | 231 | 4 | - | - | 4700 | 10 10 | 235 | |
| | 02 | 171 | 13 | 2 | - | - | - | - | - | - | 184 | 2 | - | - | 3720 | 8 10 | 186 | |
| D | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | 2 | 15 | 55 | - | 9 | - | - | - | - | 73 | 7 | - | 1 | 5400 | | 81 | |
| | 97 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | 2 | 40 | | 2 | |
| | 02 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | 20 | | 1 | |
| X | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 97 | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | | 1 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '83 | | 00% | | | 00% | | | 00% | | | -38% | | | | | | | |
| '89 | | 31% | | | 45% | | | .69% | | | -42% | | | | | | | |
| '97 | | 12% | | | 01% | | | .71% | | | -15% | | | | | | | |
| '02 | | 06% | | | .85% | | | .42% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '83 | 15266 | Dec: | 0% | | | |
| | | | | | | | | | | | | '89 | 9533 | | 57% | | | |
| | | | | | | | | | | | | '97 | 5560 | | 1% | | | |
| | | | | | | | | | | | | '02 | 4700 | | 0% | | | |
| Juniperus osteosperma | | | | | | | | | | | | | | | | | | |
| Y | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 97 | 2 | - | - | - | - | - | - | - | - | 2 | - | - | - | 40 | | 2 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '83 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '89 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '97 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '02 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '83 | 0 | Dec: | - | | | |
| | | | | | | | | | | | | '89 | 0 | | - | | | |
| | | | | | | | | | | | | '97 | 40 | | - | | | |
| | | | | | | | | | | | | '02 | 0 | | - | | | |

| A G E | Y R | Form Class (No. of Plants) | | | | | | | | | Vigor Class | | | | Plants Per Acre | Average (inches) Ht. Cr. | | Total |
|--|--------|----------------------------|---|---|------------------|---|---|-------------------|---|---|----------------|-----|------|------|--------------------|--------------------------------|----|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | | | |
| Mahonia repens | | | | | | | | | | | | | | | | | | |
| S | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 97 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 20 | | 1 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| Y | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | 6 | - | - | - | - | - | - | - | - | 6 | - | - | - | 400 | | 6 | |
| | 97 | 17 | - | - | - | - | - | - | - | - | 17 | - | - | - | 340 | | 17 | |
| | 02 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 20 | | 1 | |
| M | 83 | 5 | - | - | - | - | - | - | - | - | 5 | - | - | - | 333 | 4 | 6 | |
| | 89 | - | 2 | - | - | - | - | - | - | - | 2 | - | - | - | 133 | 5 | 3 | |
| | 97 | 188 | - | - | 13 | - | - | 9 | - | - | 210 | - | - | - | 4200 | 4 | 5 | |
| | 02 | 312 | - | - | - | - | - | - | - | - | 298 | - | 14 | - | 6240 | 3 | 5 | |
| D | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 97 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 02 | 4 | - | - | - | - | - | - | - | - | 1 | - | - | 3 | 80 | | 4 | |
| X | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 97 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 100 | | 5 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '83 | | 00% | | | 00% | | | 00% | | | +38% | | | | | | | |
| '89 | | 25% | | | 00% | | | 00% | | | +88% | | | | | | | |
| '97 | | 00% | | | 00% | | | 00% | | | +28% | | | | | | | |
| '02 | | 00% | | | 00% | | | 05% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '83 | 333 | Dec: | 0% | | | |
| | | | | | | | | | | | | '89 | 533 | | 0% | | | |
| | | | | | | | | | | | | '97 | 4540 | | 0% | | | |
| | | | | | | | | | | | | '02 | 6340 | | 1% | | | |
| Pachistima myrsinites | | | | | | | | | | | | | | | | | | |
| Y | 83 | 2 | - | - | - | - | - | - | - | - | 2 | - | - | - | 133 | | 2 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 97 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '83 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '89 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '97 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '02 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '83 | 133 | Dec: | - | | | |
| | | | | | | | | | | | | '89 | 0 | | - | | | |
| | | | | | | | | | | | | '97 | 0 | | - | | | |
| | | | | | | | | | | | | '02 | 0 | | - | | | |

| A G E | Y R | Form Class (No. of Plants) | | | | | | | | | Vigor Class | | | | Plants Per Acre | Average (inches) Ht. Cr. | | Total |
|--|--------|----------------------------|---|---|------------------|---|---|-------------------|---|---|----------------|-----|-----|------|--------------------|--------------------------------|----|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | | | |
| Rosa woodsii | | | | | | | | | | | | | | | | | | |
| S | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 97 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 20 | | 1 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| Y | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 266 | | 4 | |
| | 97 | 6 | - | - | 1 | - | - | - | - | - | - | - | - | - | 140 | | 7 | |
| | 02 | 12 | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 260 | | 13 | |
| M | 83 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | 533 | 12 | 3 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | |
| | 97 | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | 40 | - | - | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | |
| D | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | 133 | | 2 | |
| | 97 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| | | '83 | | | 00% | | | 00% | | | -25% | | | | | | | |
| | | '89 | | | 17% | | | 17% | | | -55% | | | | | | | |
| | | '97 | | | 00% | | | 00% | | | +31% | | | | | | | |
| | | '02 | | | 00% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '83 | 533 | Dec: | 0% | | | |
| | | | | | | | | | | | | '89 | 399 | | 33% | | | |
| | | | | | | | | | | | | '97 | 180 | | 0% | | | |
| | | | | | | | | | | | | '02 | 260 | | 0% | | | |

| A Y G R E | Y | Form Class (No. of Plants) | | | | | | | | | Vigor Class | | | | Plants Per Acre | Average (inches) Ht. Cr. | | Total |
|--|----|----------------------------|---|----|------------------|---|---|-------------------|---|---|----------------|-----|------|------|--------------------|--------------------------------|----|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | | | |
| Symphoricarpos oreophilus | | | | | | | | | | | | | | | | | | |
| S | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 97 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 20 | | 1 | |
| | 02 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 20 | | 1 | |
| Y | 83 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 66 | | 1 | |
| | 89 | - | - | 2 | - | - | - | - | - | - | 2 | - | - | - | 133 | | 2 | |
| | 97 | 10 | 3 | - | 3 | - | - | - | - | - | 16 | - | - | - | 320 | | 16 | |
| | 02 | 38 | 1 | 1 | - | - | - | - | - | - | 39 | 1 | - | - | 800 | | 40 | |
| M | 83 | 6 | 3 | 2 | - | - | - | - | - | - | 10 | - | 1 | - | 733 | 23 | 21 | |
| | 89 | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | 66 | 17 | 14 | |
| | 97 | 79 | 3 | - | 25 | - | - | 3 | - | - | 109 | - | 1 | - | 2200 | 12 | 20 | |
| | 02 | 18 | - | - | - | - | - | - | - | - | 18 | - | - | - | 360 | 11 | 24 | |
| D | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | 13 | - | 3 | - | - | - | - | 16 | - | - | - | 1066 | | 16 | |
| | 97 | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | 20 | | 1 | |
| | 02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '83 | | 25% | | | 17% | | | 08% | | | +37% | | | | | | | |
| '89 | | 16% | | | 84% | | | 00% | | | +50% | | | | | | | |
| '97 | | 05% | | | .78% | | | .78% | | | -54% | | | | | | | |
| '02 | | 02% | | | 02% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '83 | 799 | Dec: | 0% | | | |
| | | | | | | | | | | | | '89 | 1265 | | 84% | | | |
| | | | | | | | | | | | | '97 | 2540 | | 1% | | | |
| | | | | | | | | | | | | '02 | 1160 | | 0% | | | |
| Tetradymia canescens | | | | | | | | | | | | | | | | | | |
| Y | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 97 | 1 | - | - | 1 | - | - | - | - | - | 2 | - | - | - | 40 | | 2 | |
| | 02 | 5 | - | - | - | - | - | - | - | - | 5 | - | - | - | 100 | | 5 | |
| M | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | |
| | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | |
| | 97 | 5 | - | - | 4 | - | - | - | - | - | 9 | - | - | - | 180 | 15 | 16 | |
| | 02 | 15 | - | - | - | - | - | - | - | - | 15 | - | - | - | 300 | 9 | 14 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '83 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '89 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '97 | | 00% | | | 00% | | | 00% | | | +45% | | | | | | | |
| '02 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '83 | 0 | Dec: | - | | | |
| | | | | | | | | | | | | '89 | 0 | | - | | | |
| | | | | | | | | | | | | '97 | 220 | | - | | | |
| | | | | | | | | | | | | '02 | 400 | | - | | | |

| A G E | Y R | Form Class (No. of Plants) | | | | | | | | | Vigor Class | | | | Plants Per Acre | Average (inches) Ht. Cr. | | Total |
|--|--------|----------------------------|---|---|------------------|---|---|-------------------|---|---|----------------|-----|----|------|--------------------|--------------------------------|---|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | | | |
| Unknown browse | | | | | | | | | | | | | | | | | | |
| M | '83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | 0 |
| | '89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | 0 |
| | '97 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 20 | - | - | 1 |
| | '02 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | 0 |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| | | '83 | | | 00% | | | 00% | | | 00% | | | | | | | |
| | | '89 | | | 00% | | | 00% | | | 00% | | | | | | | |
| | | '97 | | | 00% | | | 00% | | | 00% | | | | | | | |
| | | '02 | | | 00% | | | 00% | | | 00% | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '83 | 0 | Dec: | - | | | |
| | | | | | | | | | | | | '89 | 0 | | - | | | |
| | | | | | | | | | | | | '97 | 20 | | - | | | |
| | | | | | | | | | | | | '02 | 0 | | - | | | |